AMENDMENTS TO THE CLAIMS

Please enter the following amendments without prejudice, without admission, without surrender of subject matter, and without any intention of creating any estoppel as to equivalents:

<u>Listing of the claims:</u>

- 1. (Currently Amended) A papermaking fabric or an engineered fabric for use in the production of paper or nonwovens, said fabric comprising:
- a plurality of uncoated functional monofilaments having a grooved shaped cross-section and having reduced air permeability compared with a fabric having round ungrooved monofilaments, wherein the bottom of the groove shaped cross-section is wider than its open topsubstantially flat cross-section, wherein a top and/or bottom surface of said monofilaments have a plurality of grooves formed thereon.
- 2. (Currently Amended) The fabric of claim 1 wherein a-the top and bottom surface of each respective monofilament has a plurality of grooves formed thereon.
 - 3. (Currently Amended) The fabric of claim $2\underline{1}$ wherein each groove is C-shaped.
- 4. (Currently Amended) The fabric of claim 21 wherein each groove has an open angle less than 180 degrees.
- 5. (Original) The fabric of claim 1 wherein the fabric is a forming, press, dryer, TAD, pulp forming, sludge filter, chemiwasher, or engineered fabric.
- 6. (Withdrawn) A monofilament having a plurality of longitudinal grooves formed in its surface.
 - 7. (Withdrawn) The monofilament of claim 6 wherein each groove is C-shaped.
- 8. (Withdrawn) The monofilament of claim 6 wherein each groove has an open angle less than 180 degrees.

- 9. (Withdrawn) The monofilament of claim 6 wherein coating adhesion is improved.
- 10. (Withdrawn) The monofilament of claim 6 wherein the grooved monofilament is made of a material selected from the group consisting essentially of polyester, polyamide, poly(phenylene sulfide), polyetherether-ketone, poly(aryl ether ketone), polyethylene, and polypropylene.
- 11. (Currently Amended) A papermaking fabric or an engineered fabric for use in the production of paper or nonwovens, said fabric comprising:
- a plurality of uncoated grooved-shaped functional monofilaments and having improved adhesion to coatings compared with a fabric having round ungrooved monofilaments, wherein said groove-shape is wider at its bottom than at its open top on the surface of the monofilament, wherein said fabric is a papermaking fabric or an engineered fabric configured for use in a papermaking or nonwoven production machine.
- 12. (Original) The fabric of claim 11 wherein said fabric has improved adhesion to lamination substrates mechanically interlocked by way of a flow of thermoplastic material.
- 13. (Original) The fabric of claim 11 wherein the improved adhesion is achieved due to mechanical interlock regardless of the coating chemistry.
- 14. (Original) The fabric of claim 11 wherein the improved adhesion is achieved by an interlocking mechanism between the coating and the yarns in the fabric.
- 15. (Original) The fabric of claim 11 wherein the fabric is a forming, press, dryer, TAD, or engineered fabric.
- 16. (Withdrawn) A bicomponent monofilament made from a coated grooved-shaped monofilament.

- 17. (Withdrawn) The bicomponent monofilament of claim 16 having improved delamination resistance due to the mechanical interlock between the coating and grooves compared with a bicomponent monofilament not made from a coated grooved-shaped monofilament.
- 18. (Withdrawn) The bicomponent monofilament of claim 16 wherein the bicomponent monofilament is made using solution coating.
- 19. (Withdrawn) The bicomponent monofilament of claim 16 wherein the bicomponent monofilament is made using wire coating.
- 20. (Withdrawn) The bicomponent monofilament of claim 16 wherein said bicomponent monofilament has a conductive coating.
- 21. (Withdrawn) A die used for extruding groove-shaped monofilaments and having a capillary cross section with a plurality of projections oriented towards an interior of the capillary, wherein an angle centering at the origin of a respective projection and facing into said interior is over 250 degrees, and the open angle defined as the angle centering at the origin of a C and facing its outlet is much less than 180 degrees.
- 22. (Withdrawn) The die of claim 21 wherein a diameter of the capillary is approximately three times the size of the monofilaments to be produced.
- 23. (Withdrawn) The die of claim 21 wherein the ratio of length to diameter of the capillary is approximately 3:1.
- 24. (Withdrawn) The die of claim 21 wherein the monofilaments to be produced are made of PET.
- 25. (Withdrawn) The die of claim 21 wherein the monofilaments are extruded according to a melt spinning process.

- 26. (Withdrawn) A monofilament having one or more grooves, said grooved monofilament having improved adhesion to coatings compared with a round ungrooved monofilament and provides for improved air handling.
- 27. (Withdrawn) The monofilament of claim 26 wherein the groove's cross sectional shape is one of U-shaped, key-way shaped, C-shaped, V-shaped, square, rectangular, or trapezoidal.
- 28. (Withdrawn) The monofilament of claim 26 wherein the monofilament is square or rectangular in shape with a top surface of the monofilament having the same profile as a bottom surface.
- 29. (Withdrawn) The monofilament of claim 26 wherein the monofilament is square or rectangular in shape with a top surface having a different profile than a bottom surface.
- 30. (Withdrawn) The monofilament of claim 29 wherein the groove(s) formed in the top surface are offset from the groove(s) formed in the bottom surface.
- 31. (Withdrawn) The monofilament of claim 28 wherein groove(s) formed in the top surface are aligned with groove(s) formed in the bottom surface.
- 32. (Withdrawn) The monofilament of claim 26 wherein the improved adhesion is achieved due to mechanical interlock regardless of the coating chemistry.
- 33. (Withdrawn) The monofilament of claim 26 wherein the improved adhesion is achieved by an interlocking mechanism between the coating and monofilaments.
- 34. (Withdrawn) The monofilament of claim 26 wherein the grooved monofilament is made from one of polyester, polyamide, poly(phenylene sulfide), polyetherether-ketone, poly(aryl ether ketone), polyethylene, polypropylene and metal.

- 35. (Withdrawn) The monofilament of claim 26 wherein the grooved monofilament is made by die extrusion.
- 36. (Currently Amended) A papermaking fabric or an engineered fabric for use in the production of paper or nonwovens, said fabric comprising:
- a plurality of uncoated <u>functional</u> monofilaments, said monofilaments having <u>a</u> <u>substantially flat cross-sectional shape and one</u> or more longitudinal grooves <u>formed thereon</u>, <u>wherein said one or more grooves are wider at their bottom than at their open top, and wherein said fabric exhibiting exhibits improved air handling compared with a fabric having round ungrooved monofilaments.</u>
- 37. (Original) The fabric of claim 36 wherein the grooves in the monofilaments channel air passing over the fabric.
- 38. (Original) The fabric of claim 36 wherein the grooves in the monofilaments increase a void volume of the fabric without increasing the fabric's caliper.
- 39. (Original) The fabric of claim 36 wherein the cross sectional shape of the grooves in the monofilaments is one which provides the fabric with an air handling capacity.
- 40. (Original) The fabric of claim 36, wherein the grooved monofilaments are incorporated as both MD yarns and CD yarns, said fabric exhibiting a thinner caliper, reduced permeability, greater stability, improved sheet contact, and reduced dusting, as compared with a fabric not having said configuration.
- 41. (Original) The fabric of claim 36 wherein said grooves in the monofilaments provide venting of moisture at a point of contact between the monofilaments and a sheet on the fabric.
- 42. (Original) The fabric of claim 36 wherein the fabric is a forming, press, dryer, TAD, pulp forming, sludge filter, chemiwasher, or engineered fabric.

- 43. (Previously Presented) The fabric of claim 36 wherein the groove's cross sectional shape is one of a key-way shaped, C-shaped, or trapezoidal.
- 44. (Original) The fabric of claim 36 wherein the monofilament is square or rectangular in shape with a top surface of the monofilament having the same profile as a bottom surface.
- 45. (Original) The fabric of claim 36 wherein the monofilament is square or rectangular in shape with a top surface having a different profile than a bottom surface.
- 46. (Original) The fabric of claim 45 wherein the groove(s) formed in the top surface of the monofilaments are offset from the groove(s) formed in the bottom surface of the monofilaments.
- 47. (Original) The fabric of claim 44 wherein groove(s) formed in the top surface of the monofilaments are aligned with groove(s) formed in the bottom surface of the monofilaments.
- 48. (Original) The fabric of claim 36 wherein the grooved monofilament is made from one of polyester, polyamide, poly(phenylene sulfide), polyetherether-ketone, poly(aryl ether ketone), polyethylene, polypropylene and metal.
- 49. (Original) The fabric of claim 36 wherein the grooved monofilament is made by die extrusion.
- 50. (Withdrawn) The monofilament of claim 26 wherein the monofilament is square or rectangular in shape with a top surface of the monofilament having at least three key-way shaped grooves therein.
- 51. (Withdrawn) The monofilament of claim 50 wherein said monofilament is less likely to mark a sheet than a monofilament not having said configuration.

- 52. (Withdrawn) A filament comprised of a core surrounded by a grooved sheath, the core and the sheath being distinguishable from one another by their differing color, wherein a color change of a fabric comprising said filaments indicates wear thereof.
- 53. (Withdrawn) The fabric of claim 1 wherein the fabric is a spiral link fabric comprising a plurality of spiral links having the grooved-shaped cross-section and having reduced air permeability.
- 54. (Withdrawn) The spiral link fabric of claim 53 wherein a surface of each respective spiral link has a plurality of grooves formed thereon.
 - 55. (Withdrawn) The spiral link fabric of claim 54 wherein each groove is C-shaped.
- 56. (Withdrawn) The spiral link fabric of claim 54 wherein each groove has an open angle less than 180 degrees.
- 57. (Withdrawn) The spiral link fabric of claim 53 wherein the groove's cross-sectional shape is one of a U-shaped, key-way shaped, C-shaped, V-shaped, square, rectangular, or trapezoidal.
- 58. (Withdrawn) The spiral link fabric of claim 53 wherein the spiral link is made from one of polyester, polyamide, poly(phenylene sulfide), polyetherether-ketone, poly(aryl ether ketone), polyethylene, polypropylene or metal.
- 59. (Withdrawn) A spiral link in a fabric according to claim 53, said spiral link having a plurality of grooves formed in its surface.
 - 60. (Withdrawn) The spiral link of claim 59 wherein each groove is C-shaped.
- 61. (Withdrawn) The spiral link of claim 59 wherein each groove has an open angle less than 180 degrees.

- 62. (Withdrawn) The spiral link of claim 59 wherein coating adhesion is improved.
- 63. (Withdrawn) The spiral link of claim 59 wherein the spiral link is made of a material selected from the group consisting essentially of polyester, polyamide, poly(phenylene sulfide), polyetherether-ketone, poly(aryl ether ketone), polyethylene, polypropylene or metal.